Recovery Plan Action Status

Plan Name: Recovery Plan for Serpentine Soil Species of the San Francisco Bay Area

Plan Status: Final Plan Date: 30-Sep-98 Lead Agency: USFWS

Lead Office: Sacramento Fish And Wildlife Office 414-6600)

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bay checkerspot butterfly (Euphydryas editha bayensis), Tiburon mariposa lily (Calochortus iiburonensis), Metcalf Canyon ewelflower (Streptanthus albidus ssp. albidus), Pennell's bird's-beak (Cordylanthus elenuis ssp. capillaris), San Mateo woolly sunflower (Eriophyllum atilobum), Coyote ceanothus (Ceanothus (Ceanothus (Ceanothus ierrisae), White-rayed pentachaeta (Pentachaeta bellidiflora), Presidio clarkia (Cirsium fontinale var. fontinale), Tiburon paintbrush (Castilleja affinis ssp. neglecta), Marin dwarf-flax (Hesperolinon congestum), Tiburon jewelflower (Streptanthus niger), San Mateo thornmint (Acanthomintha obovata ssp. dudtonii), Santa Clara Valley dudleya (Dudleya (Dudleya (Dudleya (Dudleya (Dudleya (Dudleya (Streptanthus dudleya (Dudleya (Dudleya (Streptanthus dudleya (Dudleya (Dudleya (Dudleya (Streptanthus dudleya (Dudleya (Dudleya (Streptanthus dudleya (S	2	1.1	Establish cooperative programs with participants from the public and private sector	Ongoing Not Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, California Department of Fish and Game	Other: Information and Education	Internal Technical Assistance	Cooperative program established with Stuart Weiss and San Mateo Parks for reintroduction of Bay Checkerspot into Edgewood Park.

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Bay checkerspot butterfly	2	1.2.1	Develop and implement outreach	Not Started			U.S. Fish and Wildlife Service	Other: Information and Education	Internal Technical Assistance	
(Euphydryas editha			plans				Wilding Service	and Education	Assistance	
bayensis), Tiburon			piaris							
mariposa lily										
(Calochortus										
tiburonensis), Metcalf Canyon										
ivietcair Canyon										
jewelflower										
(Streptanthus										
albidus ssp.										
albidus), Pennell's										
bird's-beak										
(Cordylanthus										
tenuis ssp.										
capillaris), San										
Mateo woolly										
sunflower										
(Eriophyllum										
latilobum), Coyote										
ceanothus										
(Ceanothus										
ferrisae), White-										
rayed pentachaeta										
(Pentachaeta										
bellidiflora),										
Presidio clarkia										
(Clarkia										
franciscana),										
Fountain thistle										
(Cirsium fontinale										
var. fontinale),										
Tiburon paintbrush										
(Castilleja affinis										
ssp. neglecta),										
Marin dwarf-flax										
(Hesperolinon										
congestum),										
Tiburon jewelflower										
(Streptanthus										
niger), San Mateo										
thornmint										
(Acanthomintha										
obovata ssp.										
duttonii), Santa										
Clara Valley										
dudleya (Dudleya										
setchellii)		1						1	1	

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(Acanthomintha obovata ssp. duttonii), Santa Clara Valley dudleya (Dudleya setchellii)										

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Pennell's bird's- beak (Cordylanthus tenuis ssp. capillaris)	1	2.1.30	Secure and protect serpentine habitat on Bohemian Highway site (Sonoma County) for multiple species	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game	Acquisition: Easement	Internal Field Assistance	

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Pennell's bird's- beak (Cordylanthus tenuis ssp. capillaris)	1	2.1.31	Secure and protect serpentine habitat in Harrison Grade Perserve and adjacent area (Sonoma County) for multiple species	Ongoing Not Current	Prior to FY 1995		U.S. Fish and Wildlife Service, California Department of Fish and Game	Acquisition	Internal Field Assistance	Harrison Grade Ecological Preserve was acquired by CDFG. It contains Cordylanthus tenuis ssp. capillaris along the roadside and inside the preserve. Preserve is fenced but not managed or surveyed. In 2011, CDFG began drafting the Conceptual Area Protection Plan.
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Bay checkerspot	1	3.1	Develop and	Ongoing Current	FY 1995 - FY 1999		California	Management:	Internal Field	Staff from
butterfly			implement				Department of	General	Assistance	Creekside Center
(Euphydryas editha			appropriate				Parks and			for Earth Observation
bayensis), Tiburon			management				Recreation,			
mariposa lily			actions at multiple				California			working with Santa
(Calochortus			sites, for multiple				Department of			Clara Open Space
tiburonensis),			species				Transportation, City			Authority to
Metcalf Canyon			'				of San Jose,			develop new
jewelflower							California, City of			monitoring protocol
(Streptanthus							Tiburon, California,			for Dudleya
albidus ssp.							East Bay Regional			setchellii.
albidus), Pennell's							Park District, Marin			
bird's-beak							County Open			Invasive plants are
(Cordylanthus						Space District,			being removed	
tenuis ssp.						Marin Municipal			from Cirsium	
capillaris), San						Water District,			fontinale var.	
Mateo woolly						Midpeninsula			fontinale	
sunflower							Regional Open			populations at
(Eriophyllum									Space District,	
latilobum), Coyote							Rancho Santa Ana			CalTrans property near Woodside Glens.
							Botanic Garden,			
ceanothus (Ceanothus							San Francisco			
										Gieris.
ferrisae), White-							Water Department,			
rayed pentachaeta							Tiburon Landmark			
(Pentachaeta							Society, University			
bellidiflora),							of California at			
Presidio clarkia							Berkeley, San			
(Clarkia							Mateo County,			
franciscana),							California,			
Fountain thistle							Stanislaus County,			
(Cirsium fontinale						California, Marin				
var. fontinale),							County, California,			
Tiburon paintbrush							San Francisco			
(Castilleja affinis							County, California,			
ssp. neglecta),							Santa Clara			
Marin dwarf-flax							County, California,			
(Hesperolinon							Contra Costa			
congestum),							County, California,			
Tiburon jewelflower							Alameda County,			
(Streptanthus							California, Sonoma			
niger), San Mateo							County, California,			
thornmint							National Park			
(Acanthomintha							Service, U.S. Fish			
obovata ssp.							and Wildlife			
duttonii), Santa					Service, California					
Clara Valley					Department of Fish					
dudleya (Dudleya					1		and Game, Private			
setchellii)					1		landowners			

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Pennell's bird's- beak (Cordylanthus tenuis ssp. capillaris)	2	4.2.48	Conduct surveys in historic and potential habitat for the Bohemian Highway site (Sonoma County) for multiple species	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game	Research: Population Surveys	Graduate Student	

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Pennell's bird's- beak (Cordylanthus tenuis ssp. capillaris)	1		Conduct necessary research at Bohemian Highway site (Sonoma County) for multiple species					Work type not yet selected	Labor type not yet selected	
Pennell's bird's- beak (Cordylanthus tenuis ssp. capillaris)	2		Conduct necessary research at Camp Meeker area (including Harrison Grade Preserve) (Sonoma County) for multiple species	Not Started				Work type not yet selected	selected	Research includes fire ecology of Arctostaphylos bakeri ssp. bakeri